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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 19	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 20	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 21	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:05:35 ON 26 SEP 2006

```
=> file .meeting
'EVENTLINE' IS NOT A VALID FILE NAME
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that are available.  If you have requested multiple files, you can
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accessing the remaining file names entered.
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'MEDICONF' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
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ENTER A FILE NAME OR (IGNORE):ignore
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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=> PTH and rat and goat
L1             0 FILE AGRICOLA
L2             4 FILE BIOTECHNO
L3             0 FILE CONFSCI
L4             0 FILE HEALSAFE
L5             0 FILE IMSDRUGCONF
L6             1 FILE LIFESCI
L7             1 FILE PASCAL

TOTAL FOR ALL FILES
L8             6 PTH AND RAT AND GOAT

=> dup rem
ENTER L# LIST OR (END):l8
DUPLICATE IS NOT AVAILABLE IN 'IMSDRUGCONF'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
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L9             5 DUP REM L8 (1 DUPLICATE REMOVED)

=> d l9 ibib abs total
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L9 ANSWER 1 OF 5 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
DUPLICATE
ACCESSION NUMBER: 1995:25110014 BIOTECHNO
TITLE: A new rapid and reproducible homologous immunoradiometric assay for amino- terminal parathyroid hormone in the rat
AUTHOR: Rucinski B.; Mann G.N.; Epstein S.
CORPORATE SOURCE: Division of Endocrinology/Metabolism, Albert Einstein Medical Center,Philadelphia, PA 19141, United States.
SOURCE: Calcified Tissue International, (1995), 56/1 (83-87)
CODEN: CTINDZ ISSN: 0171-967X
DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
SUMMARY LANGUAGE: English
AN 1995:25110014 BIOTECHNO
AB Measurement of parathyroid hormone (PTH) in the rat is most often performed with competitive ligand radioimmunoassays (RIA) utilizing heterologous antibodies. We report here the validation of a newly developed homologous immunoradiometric assay (IRMA) for rat PTH. Two different goat antibodies to the amino-terminal sequence of rat PTH are utilized; one is immobilized onto plastic beads to capture the PTH molecules and the other is radiolabeled for detection. To test this new IRMA, 30 Sprague-Dawley rats were randomized into three treatment groups to receive by intraperitoneal injection: (1) saline 1 ml/kg (control); (2) calcium chloride 40 mg/kg (hypercalcemic); and (3) EDTA 300 mg/kg (hypocalcemic). Blood samples were taken at 0, 30, 60, 180, and 300 minutes after administration of the assigned treatment for measurement of ionized calcium (Ca.sup.2.sup.+) and serum PTH. Most of the variance in PTH levels was found to be due to changes in Ca.sup.2.sup.+ (r.sup.2 = 0.780, P < 0.0001). There was also a close temporal relationship between the two, with the highest levels of PTH occurring at the same measured time points as the lowest Ca.sup.2.sup.+, and vice versa. The measured detection limit of the IRMA was 3 pg/ml with intra- and interassay coefficients of variation of 1.74% and 3.07%, respectively. Serial dilutions with pooled rat serum, synthetic rat PTH-(1-34), and synthetic human PTH-(1-34) showed good parallelism with increased specificity for the pooled and synthetic PTH, despite a degree of cross-reactivity with hPTH. The assay is able to quantitate rapid changes in PTH, providing all the advantages of IRMA methodology including technical simplicity and speed of performance, and is likely to become a useful tool in investigations of bone, mineral, and renal homeostasis using the rat.

L9 ANSWER 2 OF 5 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 1991:21317415 BIOTECHNO
TITLE: Homologous amino-terminal radioimmunoassay for rat parathyroid hormone
AUTHOR: Calvo M.S.; Gundberg C.M.; Heath III H.; Fox J.
CORPORATE SOURCE: Dept. of Health/Human Services, Public Health Service, Food and Drug Administration, HFF-265, 200 C St. SW,Washington, DC 20204, United States.
SOURCE: American Journal of Physiology - Endocrinology and Metabolism, (1991), 261/2 24-2 (E262-E268)
CODEN: AJPMD0 ISSN: 0002-9513
DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
SUMMARY LANGUAGE: English
AN 1991:21317415 BIOTECHNO
AB Existing radioimmunoassays for parathyroid hormone (PTH) in rat plasma are based on cross-reactivity of rat

PTH (rPTH) with heterologous antisera. We used the synthetic NH.sub.2-terminal fragment of rPTH ¢rPTH-(1-34)! to develop a homologous radioimmunoassay for circulating PTH. An antiserum to rPTH-(1-34) was raised in a goat (G-813), and the same peptide was used as radioligand (.sup.1.sup.2.sup.5I) and standard. Purification of the label by high-performance liquid chromatography (HPLC) increased specific binding greater than twofold and sensitivity by 50-100%. With a final antiserum dilution of 1:70,000, maximum specific binding of 30-33%, nonspecific binding of 1-5%, and 50-µl sample additions, the assay detection limit was 1.8-2.5 pmol/l. A midregional fragment of human PTH did not displace .sup.1.sup.2.sup.5I-labeled rPTH-(1-34). HPLC of extracts of rat parathyroid glands and hyperparathyroid plasma showed only a single peak of immunoreactivity that eluted 2 min after rPTH-(1-34). Dose dilution curves for rat parathyroid gland extracts, rPTH-(1-34) added to rat plasma, and endogenous rat plasma PTH all paralleled the standard curve. Immunoreactive PTH (irPTH) was detectable in >90% of fasting normal rat plasma and changed appropriately in response to hyper- and hypocalcemia induced by low-calcium and vitamin D-deficient diets, injections of calcium and EDTA, and after thyroparathyroidectomy. The normal range for rat plasma irPTH was <2.0-12 pmol/l, in general agreement with bioassay results of others. Thus rPTH-(1-34) is an excellent immunogen for raising antisera to rPTH, and assays incorporating it may be of great value in studying rat parathyroid physiology.

L9 ANSWER 3 OF 5 PASCAL COPYRIGHT 2006 INIST-CNRS. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 1992-0680605 PASCAL
TITLE (IN ENGLISH): Homologous amino-terminal radioimmunoassay for rat parathyroid hormone
AUTHOR: CALVO M. S.; GUNDBERG C. M.; HEATH H. III; FOX J.
CORPORATE SOURCE: Mayo clin. medical school, div. endocrinology metabolism, endocrine res. unit, Rochester MN 55905, United States
SOURCE: American journal of physiology. Endocrinology and metabolism, (1991), 24(2), E262-E268, 27 refs. ISSN: 0193-1849 CODEN: AJPMD9
DOCUMENT TYPE: Journal
BIBLIOGRAPHIC LEVEL: Analytic
COUNTRY: United States
LANGUAGE: English
AVAILABILITY: INIST-670 C1, 354000012677570160
AN 1992-0680605 PASCAL
AB Existing radioimmunoassays for parathyroid hormone (PTH) in rat plasma are based on cross-reactivity of rat PTH (rPTH) with heterologous antisera. We used the synthetic NH.sub.2-terminal fragment of rPTH [rPTH-(1-34)] to develop a homologous radioimmunoassay for circulating PTH. An antiserum to rPTH-(1-34) was raised in a goat (G-813), and the same peptide was used as radioligand (.sup.1.sup.2.sup.5I) and standard. Purification of the label by high-performance liquid chromatography (HPLC) increased specific binding greater than twofold and sensitivity by 50-100%

L9 ANSWER 4 OF 5 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN

ACCESSION NUMBER: 1990:20079539 BIOTECHNO
TITLE: Purification and properties of parathyroid hormone-related peptide isolated from milk
AUTHOR: Thurston A.W.; Cole J.A.; Hillman L.S.; Im J.H.; Thorne P.K.; Krause W.J.; Jones J.R.; Eber S.L.; Forte L.R.
CORPORATE SOURCE: Department of Pharmacology, Missouri University,Columbia, MO 65212, United States.
SOURCE: Endocrinology, (1990), 126/2 (1183-1190)

CODEN: ENDOAO ISSN: 0013-7227
DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
SUMMARY LANGUAGE: English
AN 1990:20079539 BIOTECHNO
AB The occurrence and properties of PTH-related peptide (PTH-RP) in milk was investigated. PTH-RP was purified to homogeneity from human and bovine milk using heat and acid to precipitate milk proteins followed by ion exchange chromatography and reverse-phase HPLC. The peak of PTH-RP from HPLC was detected using a sensitive bone cell bioassay. A single band of peptide was detected on silver-stained polyacrylamide gels, which migrated as a 20-21-kDa macromolecule. PTH-RP isolated from either human or bovine milk had similar electrophoretic mobilities on sodium dodecyl sulfate-polyacrylamide gel electrophoresis. The partially purified bovine PTH-RP stimulated cAMP production in UMR106-01 and OK cell lines and elicited a concentration-dependent inhibition of sodium-dependent phosphate transport in OK cells. Incubation of milk extracts with an anti-PTH antiserum did not affect their bioactivity, whereas an antihuman PTH-RP 1-34 antiserum markedly reduced the cAMP response to UMR106-1 cells to the immunoabsorbed milk extracts. A PTH antagonist, norleu PTH 3-34, blocked the stimulation of cAMP production in UMR106-01 cells treated with milk extracts. PTH-PR immunoreactivity and bioactivity occurred in milk extracts of diverse animals from both eutherian and metatherian (marsupial) species. Porcine colostrum also had immunoreactive PTH-RP, although the levels were lower than the immunoreactive PTH-RP concentrations observed in milk samples collected at 7 and 14 days of lactation. Thus, a 20-21-KDa PTH-RP is secreted into milk where it could play a role in the developing of suckling, newborn animals.

L9 ANSWER 5 OF 5 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 1983:13048980 BIOTECHNO
TITLE: Immunohistochemical demonstration of parathyroid hormone binding to specific cell types in fixed rat bone tissue
AUTHOR: Rao L.G.; Murray T.M.; Heersche J.N.M.
CORPORATE SOURCE: MRC Group Periodont. Physiol., Fac. Dent., Univ. Toronto, Toronto, Ont. M5S 1A8, Canada.
SOURCE: Endocrinology, (1983), 113/2 (805-810)
CODEN: ENDOAO
DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
AN 1983:13048980 BIOTECHNO
AB Deparaffinized sections of fixed decalcified neonatal rat radii were incubated in bovine PTH (bPTH; 1-10 MRC units/ml) or in PTH-solvent. They were then stained for PTH by the peroxidase-antiperoxidase method using guinea pig antiserum to bPTH and the substrate 3,3'-diaminobenzidine-H.sub.2O.sub.. Staining caused by nonspecific binding of PTH to the bone matrix and the glass slides supporting the sections was eliminated completely by preincubation of the sections in 100% normal goat serum. Cross-reactivity of the antiserum to erythrocytes was eliminated by preabsorption of the antiserum with fixed rat erythrocytes. After the cross-reactivity of the anti-PTH antiserum to erythrocyte components and the nonspecific binding of PTH to bone matrix were eliminated, we were able to demonstrate intense staining over the cytoplasm of the osteoclasts in rat radii sections incubated with PTH. Less intense staining was observed over the osteocytes, periosteal osteoblasts, and, possibly, the endosteal osteoblasts. An explanation for this differential staining could be that

osteoclasts have a greater receptor number and/or a greater receptor affinity for the bPTH than do osteocytes and osteoblasts. This study demonstrates that binding of PTH to bone tissue can be localized in all identifiable osteoclasts, osteocytes, and osteoblasts, and thus suggests that all three cell types can interact directly with PTH.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	PTH same rat same goat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 17:04
L2	944	PTH and rat and goat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 17:12
L3	149	PTH and (rat near5 goat)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 17:13
L4	1	PTH same (rat near5 goat)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 17:13

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Application Number [ ] Submit

IDS Flag Clearance for Application 10617489

IDS Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2006-09-08	65	Y ☑	2006-09-26 15:22:23.0	CCheu
M844	2006-06-14	62	Y ☑	2006-09-26 15:22:26.0	CCheu
M844	2006-05-05	59	Y ☑	2006-09-26 15:22:28.0	CCheu
M844	2006-04-19	57	Y ☑	2006-09-26 15:22:30.0	CCheu
M844	2006-01-13	52	Y ☑	2006-09-26 15:22:32.0	CCheu
M844	2005-07-07	41	Y ☑	2005-07-18 14:10:48.0	nvillarivera
M844	2005-05-10	39	Y ☑	2005-05-19 14:48:02.0	cthomas4
M844	2004-12-03	33	Y ☑	2005-01-13 14:40:39.0	adjohnson
M844	2004-12-01	32	Y ☑	2004-12-07 18:05:09.0	mblyther
M844	2004-06-21	26	Y ☑	2004-07-30 12:25:12.0	rjones
M844	2004-03-01	25	Y ☑	2004-07-30 12:24:58.0	rjones

Update